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1: NM_015259. Homo sapiens B7-like protein (B7H2), mRNA.

Links

LOCUS NM_015259 1572 bp mRNA linear PRI 05-OCT-2003
DEFINITION Homo sapiens B7-like protein (B7H2), mRNA.
ACCESSION NM_015259
VERSION NM_015259.1 GI:27477038
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1572)
AUTHORS Chen,X.L., Cao,X.D., Kang,A.J., Wang,K.M., Su,B.S. and Wang,Y.L.
TITLE In situ expression and significance of B7 costimulatory molecules within tissues of human gastric carcinoma
JOURNAL World J. Gastroenterol. 9 (6), 1370-1373 (2003)
MEDLINE 22685067
PUBMED 12800259
REMARK GeneRIF: ICOS-B7H costimulatory pathway may be involved in the negative regulation of cell-mediated immune responses.
REFERENCE 2 (bases 1 to 1572)
AUTHORS Kurosawa,S., Myers,A.C., Chen,L., Wang,S., Ni,J., Plitt,J.R., Heller,N.M., Bochner,B.S. and Schleimer,R.P.
TITLE Expression of the costimulatory molecule B7-H2 (inducible costimulator ligand) by human airway epithelial cells
JOURNAL Am. J. Respir. Cell Mol. Biol. 28 (5), 563-573 (2003)
MEDLINE 22591932
PUBMED 12707012
REMARK GeneRIF: These results demonstrate that airway epithelial cells express the costimulatory molecule B7-H2, and suggest the possibility that B7-H2 may participate in antigen presentation by epithelial cells.
REFERENCE 3 (bases 1 to 1572)
AUTHORS Akbari,O., Freeman,G.J., Meyer,E.H., Greenfield,E.A., Chang,T.T., Sharpe,A.H., Berry,G., DeKruyff,R.H. and Umetsu,D.T.
TITLE Antigen-specific regulatory T cells develop via the ICOS-ICOS-ligand pathway and inhibit allergen-induced airway hyperreactivity
JOURNAL Nat. Med. 8 (9), 1024-1032 (2002)
MEDLINE 22194852
PUBMED 12145647
REFERENCE 4 (bases 1 to 1572)
AUTHORS Flesch,I.E.
TITLE Inducible costimulator-ligand (ICOS-L)
JOURNAL J. Biol. Regul. Homeost. Agents 16 (3), 217-219 (2002)
MEDLINE 22343420
PUBMED 12456022
REMARK GeneRIF: ICOS-L is a ligand for ICOS and plays an important functional role in the activation of memory T cells by endothelial

Figure 1 (1 of 4)

REFERENCE 5 (bases 1 to 1572)
 AUTHORS Khayyamian,S., Hutloff,A., Buchner,K., Gafe,M., Henr,V., Kroczek,R.A. and Mages,H.W.
 TITLE ICOS-ligand, expressed on human endothelial cells, costimulates Th1 and Th2 cytokine secretion by memory CD4+ T cells
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (9), 6198-6203 (2002)
 MEDLINE 21980676
 PUBMED 11983910

REFERENCE 6 (bases 1 to 1572)
 AUTHORS Sperling,A.I. and Bluestone,J.A.
 TITLE ICOS costimulation: It's not just for TH2 cells anymore
 JOURNAL Nat. Immunol. 2 (7), 573-574 (2001)
 MEDLINE 21322735
 PUBMED 11429535

REFERENCE 7 (bases 1 to 1572)
 AUTHORS Wang,S., Zhu,G., Chapoval,A.I., Dong,H., Tamada,K., Ni,J. and Chen,L.
 TITLE Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS
 JOURNAL Blood 96 (8), 2808-2813 (2000)
 MEDLINE 20477846
 PUBMED 11023515

REFERENCE 8 (bases 1 to 1572)
 AUTHORS Yoshinaga,S.K., Zhang,M., Pistillo,J., Horan,T., Khare,S.D., Miner,K., Sonnenberg,M., Boone,T., Brankow,D., Dai,T., Delaney,J., Han,H., Hui,A., Kohno,T., Manoukian,R., Whoriskey,J.S. and Coccia,M.A.
 TITLE Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS
 JOURNAL Int. Immunol. 12 (10), 1439-1447 (2000)
 MEDLINE 20465019
 PUBMED 11007762

REFERENCE 9 (bases 1 to 1572)
 AUTHORS Ling,V., Wu,P.W., Finnerty,H.F., Bean,K.M., Spaulding,V., Fouser,L.A., Leonard,J.P., Hunter,S.E., Zollner,R., Thomas,J.L., Miyashiro,J.S., Jacobs,K.A. and Collins,M.
 TITLE Cutting edge: identification of GL50, a novel B7-like protein that functionally binds to ICOS receptor
 JOURNAL J. Immunol. 164 (4), 1653-1657 (2000)
 MEDLINE 20126021
 PUBMED 10657606

COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final NCBI review. The reference sequence was derived from AF289028.1.

FEATURES Location/Qualifiers
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Figure 1 (2 of 4)

Note: T-cell component: integral to membrane [goid 0016021];
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go_function: receptor binding [goid 0005102] [evidence TAS] [pmid 11429535];
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go_process: signal transduction [goid 0007165] [evidence NAS] [pmid 12145647];
go_process: T-cell activation [goid 0042110] [evidence NAS] [pmid 11983910];
go_process: B-cell activation [goid 0042113] [evidence IEA];
go_process: positive regulation of activated T-cell proliferation [goid 0042104] [evidence TAS] [pmid 11429535];
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Figure 1 (3 of 4)

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